



STRATCOM

Overview &

Analytic Challenges

Pat McKenna

Chief, Analysis Management

Aug 2006

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Topics

- **Command Organization**
- **Analysis Goal**
- **General and Specific Analysis Areas**
- **Summary**



Evolution Of USSTRATCOM

- **Strategic Nuclear Mission**

- **Strategic Air Command (1946-1992)**
- **JSTPS (1960-1992)**
- **Original USSTRATCOM (1992-2002)**



- **Space**

- **Service space activities**
- **USSPACECOM (1985-2002)**



- **Fundamental Changes**

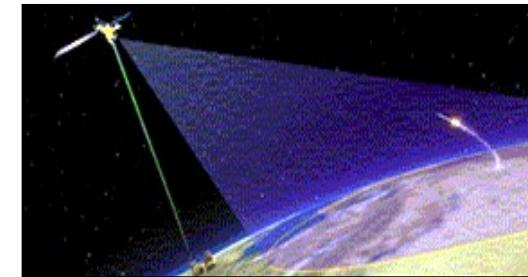
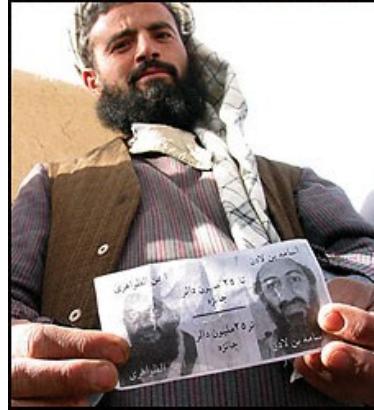
- **Cold War ends, rise of non-national entities**
- **Global capabilities, global effects, global threats**
- **Joint warfare with interagency capabilities**



Assigned Mission Areas

Providing Global Deterrence

- Strategic Deterrence
- Space Operations
- Global C2
- Global Strike
- Information Operations
- Integrated Missile Defense
- Intelligence, Surveillance, Reconnaissance (ISR)
- Combating WMD





USSTRATCOM Mission

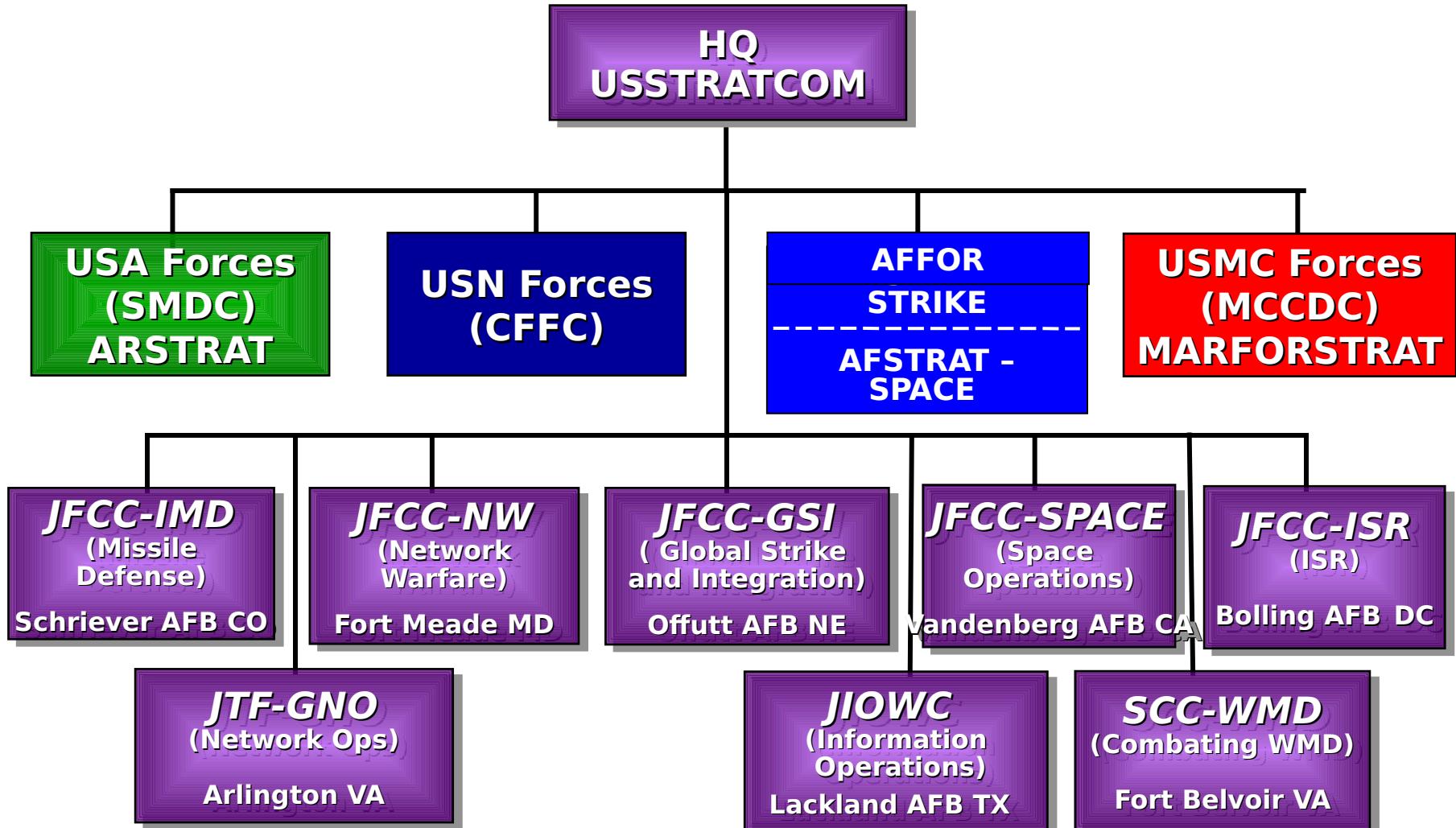


"Provide the nation with global deterrence capabilities and synchronized DoD effects to combat adversary weapons of mass destruction worldwide. Enable decisive global kinetic and non-kinetic combat effects through the application and advocacy of integrated ISR, space and global strike operations, information operations, integrated missile defense and robust

Provide Global Capabilities to Geographic COCOMS



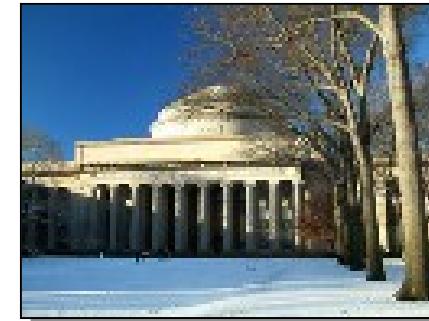
Component Structure





Global Innovation and Strategy Center

- **Mechanism to rapidly utilize world-class expertise to help solve our toughest problems and provide:**
 - Unique global strategies
 - Timely courses of action
 - New operational tools and analyses





SKIWeb

Address <https://c2gateway2.stratnets.stratcom.smil.mil/goc/gocMain.html> Go Links >

JFCC Main USSTRATCOM Main Links ▾ Message Traffic Events ▾ Force/System Status ▾ Help ▾

STRATEGIC KNOWLEDGE INTEGRATION WEB USSTRATCOM [Update]

Global Operations Center

Intel - CI/CT

- More ▾ (U) Current Briefing Format
Update to April US Future and Beyond in Space [View](#)

Combating WMD [SCC]

- More ▾ (U) Event listing pertaining to this mission area

Global Strike Ops [JFCC SIGS]

- More ▾ (U) Ops focused point about mission of Global Strike Ops today or tomorrow

Strategic Communication

- More ▾ (U) Strategically placed points pertaining to today or tomorrow

Information Ops [JIOC]

- More ▾ (U) Information for next week

Network Warfare [JFCC NW]

- More ▾ (U) Information on meeting

Critical Information

- More ▾ 051451Z DEC 2005 (U) Weather Warning
- More ▾ 042059Z DEC 2005 (U) Saddam tells court he does not fear death
- More ▾ 041311Z DEC 2005 (U) Suicide blast at Israeli mall kills five
- More ▾ 301923Z NOV 2005 (U) Media Situational Awareness Update on US Nuclear Policy [View](#)
- More ▾ 222215Z NOV 2005 (U) Iran plans 2nd nuke plant
- More ▾ 241551Z OCT 2005 (U) Rice briefs on policy change

What's New on SKIWeb More ▾

Theater Support

Updated Weather Report (U) Media SA Update for 5 Dec on Iraq IO story (U) Updated IN

Done Internet

<https://usstratcom.stratnets.stratcom.smil.mil/goc>



J8 Mission Capability and Resource Integration Directorate

Identify, analyze, and advocate for capabilities and resources to accomplish US Strategic Command's assigned missions of strategic deterrence, global strike, space operations, information operations, integrated missile defense, combating weapons of mass destruction, and global command, control, intelligence, surveillance and reconnaissance. Develop and manage current and future year financial plans.

- Mission area capabilities & resources advocacy
- Mission area capabilities assessments (JCIDS process, SWARF, FCB engagement)
- Mission area capabilities resources analysis, program oversight (Congressional, OSD, Services influence), Budget Execution, Management Controls
- Future capabilities, concepts & experimentation (ACTD, SAG S&T, Scientific / RDT&E influence)
- Mission area analysis
- Enterprise and Mission area capabilities architectures



J8 Organizational Structure

J8
Dir Capability & Resource Integration
Mr. Kenneth S. Callicutt

J8A
Associate Director
Mr. John M. Gipson

J81
Acquisition Division
Col Chang/Ms Boyd

J82
Future Capabilities Division
Mr. Spencer/Mr. Gelenter

J83
Resource Management Division
Col Anthony/Mr. Herring

J84
Space & ISR Division
CAPT Olson/Mr. Coy

J85
WMD Defense/Combating WMD Division
Dr. Mark Gallagher/(Vacant)

J86
NETOPS/NETWAR Division
COL Gregory/Ms. Kelley

J87
Global Strike Capabilities Division
Mr. Colasacco/(Vacant)

Operations Research Analyst Assigned



Analysis Goals

- **Timely analysis products**
- **Sound based analysis products**
- **Analytic expertise to identify and evaluate capabilities within and across mission area analysis**
 - **In-house and/or leveraged external analysis capabilities**

Timely and sound analysis in and across all STRATCOM mission areas



Networking with Analytic Community

- Joint Collaborative Analytic Council (JCAC) (meets bi-annually)
 - Joint analytic organizations
- Space Analysis Consortium (meets quarterly via VTC)
 - AFSPACE, AFSAA, NRO, NSSO, STRATCOM, SGS JFCC
- Held Analytic exchanges with DTRA/ASCO, AFSPACE, SMDC
- Data
 - Joint Data Support (JDS) - campaign model data files source
 - AMSAA - Army Material System Analysis Activity
- Professional Organizations
 - MORS, Army OR conf, AF OR conf, etc.
- Research Topics
 - NPGS, AFIT

Goal

leverage analytic community to improve analysis capabilities



Analytic Tools/Techniques

- **Analytic techniques**
 - **Systems Dynamics**
 - **Linear Programming**
 - **Multi-Attribute Decision Making, Value Focused Thinking**
 - **Statistics/Probability**
 - **Political Science approaches**
- **Campaign Models**
 - **Primary: JCIM, EADSIM, WAM**
 - **Secondary: ITEM, STORM/Thunder**
 - **Exploring: JAS (JWARS), COSMOS, SEAS, SPAAT**
 - **Issue: models do not represent all mission areas**



General Research Areas

- **Command Capability List**
- **Internet Protocol Routing in Space**
- **Electronic Warfare assessment**
- **Campaign Modeling**
- **Integrated Net Assessment**
- **Integrated Planning Environment**
- **New TRIAD Analysis (approaches: system dynamics, LP, Bayesian)**
- **Integrated Nuclear Enterprise Model**
- **Conventional Trident Modification**
- **Integrated Tactical Warning/Attack Assessment (ITW/AA)**
- **Architecture**
- **Strategic Deterrence Assessment Lab (SDAL)**
- **Threat Mapper**
- **C2 Studies and NC3 Assessment**
- **Combating WMD**

Areas and topics span

**Social Science, Physical Science and Operations
Research problem sets and techniques**



Specific Topics

- **Mitigating the risk of misinterpretation of launching a Conventional armed ICBM**
 - Identify and analyze mitigation alternatives (technical, political, procedural, etc)
 - POC: Lt Col Wethor, HQ STRAT/J33, 402-232-5489
- **Information Sharing with Allies**
 - What are technical options to facilitate access to nets?
 - What options available to enhance information sharing?
 - POC: Mr. Kyriss, HQ STRAT/J51, 402-294-1035
- **Organizational Relationships to facilitate persistent ISR**
 - Identify and analyze organizational relationships to best meet persistent ISR COCOM requirements
 - POC: LCDR Hendrick, HQ STRAT/J51, 402-294-3958



Specific Topics

- **Management of ISR Assets**
 - **What is the most effective and efficient method of managing Title 10 and Title 50 assets?**
 - **POC: LCDR Hendrick, HQ STRAT/J51, 402-294-3958**
- **Electronic Warfare and Network Warfare - Are they merging?**
 - **Examine if disciplines are merging and how to improve capabilities within.**
 - **POC: Mr. Seyle, HQ STRAT/J39, 402-232-5198**
- **Integration of Missile Warning and Missile Defense**
 - **Perform critical analysis of missile warning systems and architectures (ITW/AA) and TES) and missile defense systems and architectures.**
 - **POC: Mr. John Alspaugh, HQ STRAT/JFCC-SGS/J353, 402-232-4279**
- **Multi-Level Security (MLS) Considerations in a “Need to Share” vs a “Need to Know” Net-centric (NC) Environment**
 - **Ability to make available differing levels of classified information on the Global Information Grid (GIG)**
 - **POC: Mr. Ron Sharp, HQ STRAT/J821, 402-294-2918**



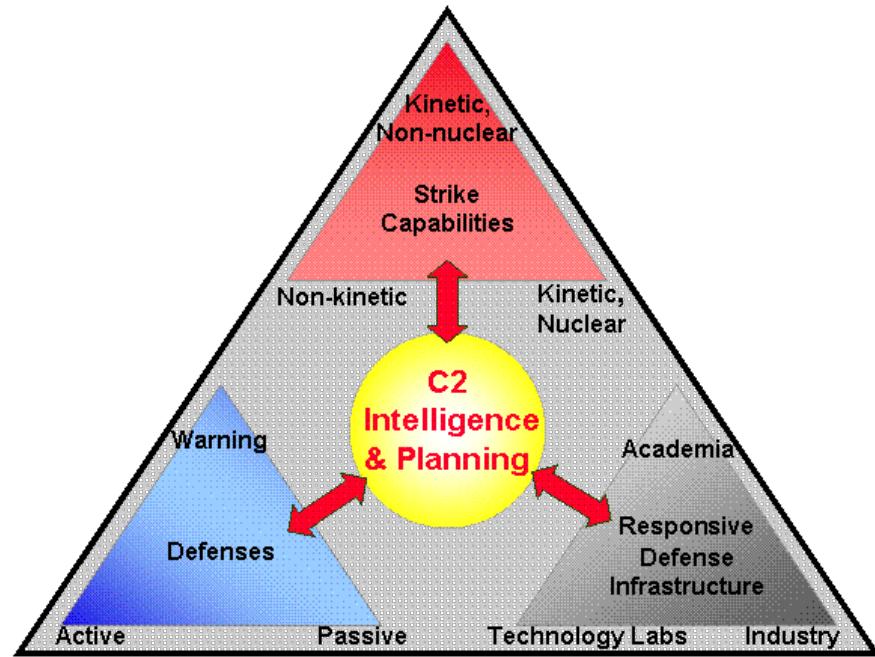
Specific Topics

- **Joint Capability Areas (JCA) - A transformational approach to Combatant Commander Mission success**
 - **Discovery of integration and synchronization techniques of capability based processes, education of capability based strategic thinking, transformation of the current Universal Joint Task List to provide capabilities based options for Combatant Commander decision making**
 - **POC: Mr. J.J. Reich, HQ STRAT/J30, 402-294-2994**
- **Military Deception and its Cost Effectiveness to the Combatant Commander**
 - **Demonstrating to Combatant Commanders the applicability and significance of the use of MILDEC at all levels; Tactical, Operational, and Strategic.**
 - **POC: Mr. Bibey, HQ STRAT/J39, 402-232-7170**
- **Effects of Avian Flu Pandemic on the Global Information Grid**
 - **Having too many users trying to access health information sources, government sites, and new sites create a tipping point that resembles a “Denial of Service” attack.**
 - **POC: Lt Col Tad Fair, HQ STRAT/J7A, 402-294-2303**



Summary

- Strategic Deterrence
- Space Operations
- Global C2
- Global Strike
- Information Operations
- Integrated Missile Defense
- Intelligence, Surveillance, Reconnaissance (ISR)
- Combating WMD



**Areas and topics span
Social Science, Physical Science and Operations
Research problem sets and techniques**



Contact Information

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Analysis Topics - program manager

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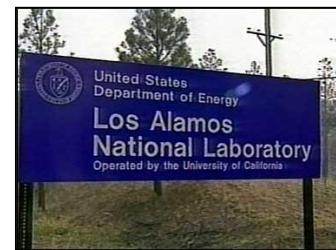
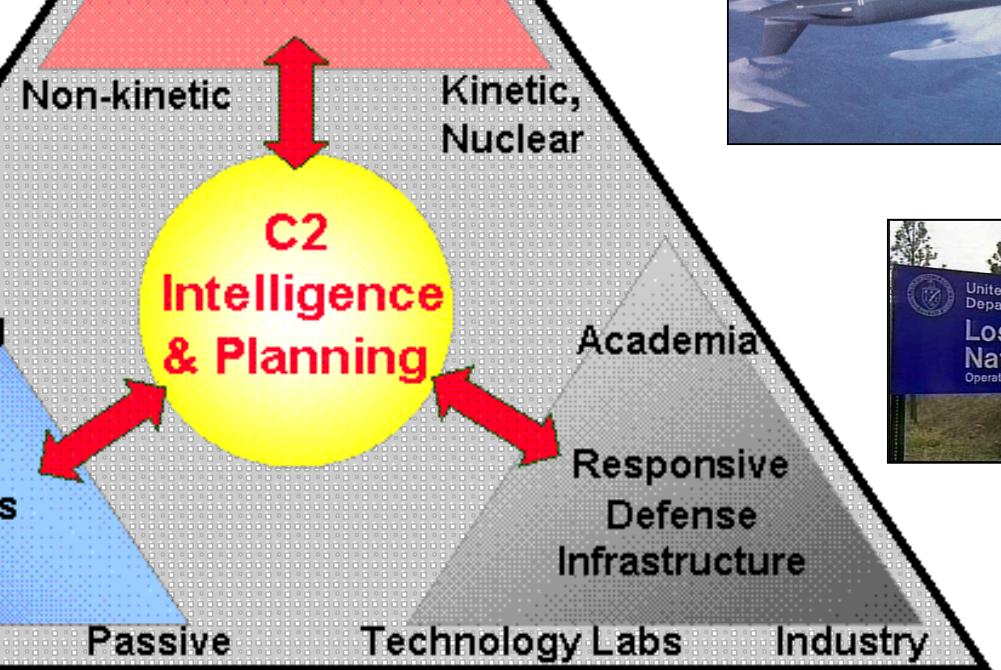
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Global Deterrence and The New Triad



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Global Strike

JFCC-SGS (Offutt AFB NE)



- **Global Strike**
 - **Rapid**
 - **Extended range**
 - **Precise**
 - **Kinetic**
 - **Non-kinetic**
- **Integrated planning**
- **Operational execution**



Lt Gen Elder





Global Strike

AOC (Barksdale AFB LA)



- **Global Strike**
 - **Rapid**
 - **Extended range**
 - **Precise**
 - **Kinetic**
 - **Non-kinetic**
- **Integrated planning**
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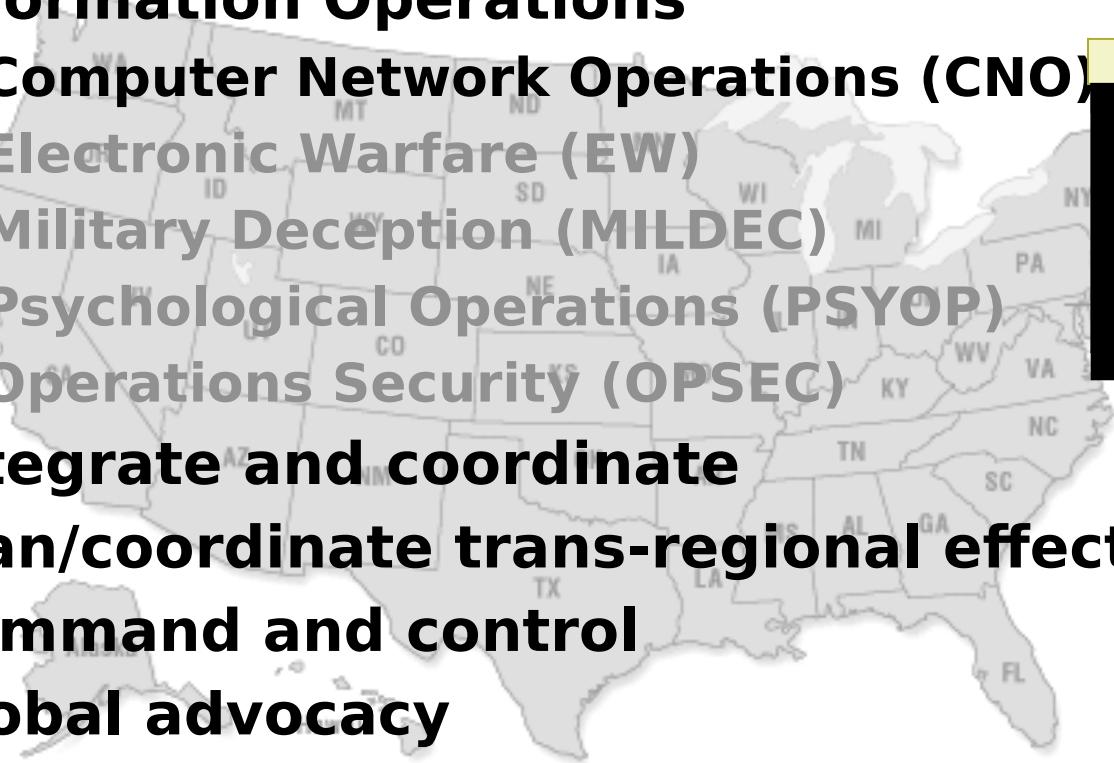
Information Operations

JFCC-NW (Ft Meade
MD)



- **Information Operations**

- Computer Network Operations (CNO)
- Electronic Warfare (EW)
- Military Deception (MILDEC)
- Psychological Operations (PSYOP)
- Operations Security (OPSEC)



LTG



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- Integrate and coordinate
- Plan/coordinate trans-regional effects
- Command and control
- Global advocacy





Information Operations

JIOC (Lackland AFB
TX),

- **Information Operations**

- Computer Network Operations (CNO)
- Electronic Warfare (EW)
- Military Deception (MILDEC)
- Psychological Operations (PSYOP)
- Operations Security (OPSEC)

- Integrate and coordinate
- Plan/coordinate trans-regional effects
- Command and control
- Global advocacy



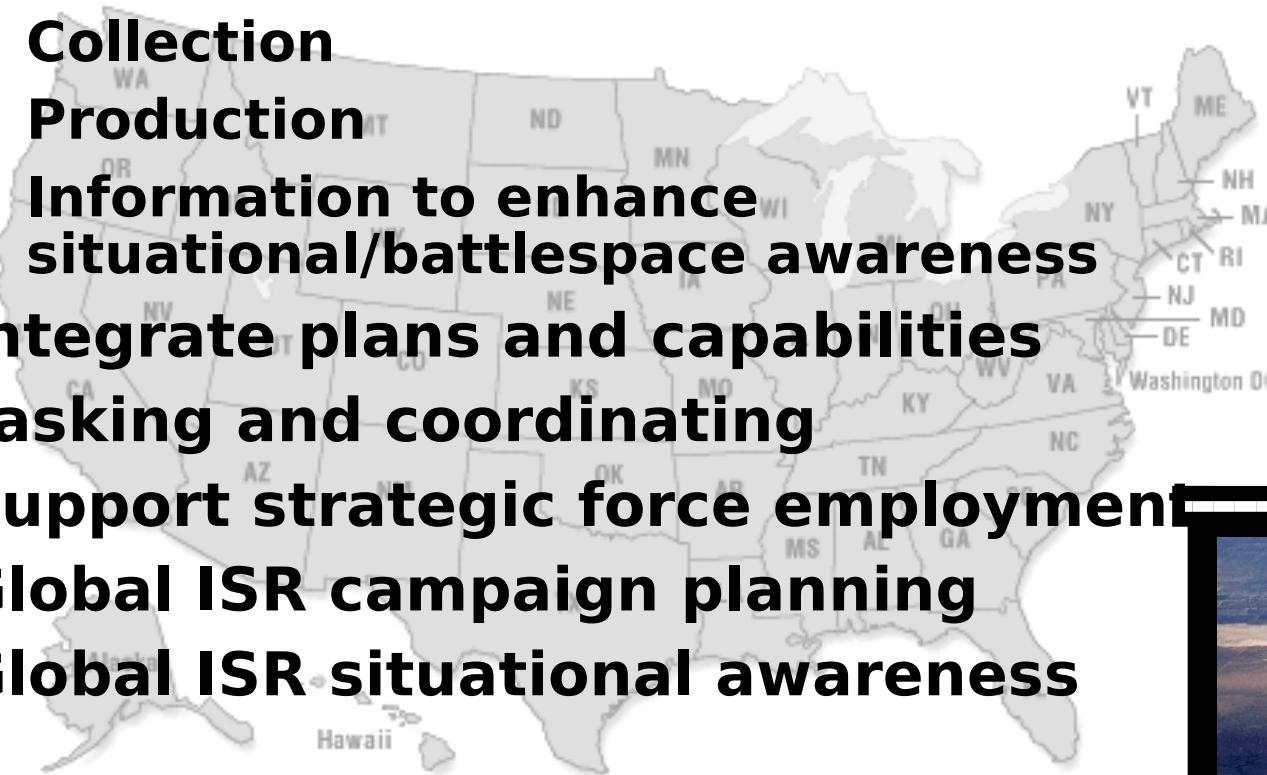


Intelligence, Surveillance, & Reconnaissance

DCI

JFCC-ISR (Bolling AFB)

- ISR
 - Collection
 - Production
 - Information to enhance situational/battlespace awareness
- Integrate plans and capabilities
- Tasking and coordinating
- Support strategic force employment
- Global ISR campaign planning
- Global ISR situational awareness



LTG Maples





Space Operations

JFCC-SGS (Offutt AFB NE)

- **Space operations**

- Force enhancement
- Space control
- Space support
- Space lift
- On-orbit operations
- Force Application

- Plan and conduct operations

- Warning/assessment of space attack

- Missile warning and space surveillance

- Space campaign planning



Lt Gen Elder





Space Operations

JSpOC (Vandenberg AFB CA)

- Space operations
 - Force enhancement
 - Space control
 - Space support
 - Space lift
 - On-orbit operations
 - Force Application

- Plan and conduct operations
- Warning/assessment of space attack
- Missile warning and space surveillance
- Space campaign planning



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Integrated Missile Defense

JFCC-IMD (Shriever AFB)



- Integrated missile defense
 - Sensors
 - Interceptors
- Provide missile attack warning/assessment
- Plan integrate and coordinate operations
- Operationalize MDA's developmental system
- Global Advocacy



LTG Dodge





Combating Weapons of Mass Destruction

SCC-WMD (Ft Belvoir VA)



- **Combating WMD**
 - Nonproliferation
 - Counterproliferation
 - Consequence management
- Integrate and synchronize DoD efforts
- Initial focus areas
 - Interdiction
 - Elimination



Dr Tegnelia





Command and Control

USSTRATCOM (Offutt AFB)

- **Command and control**
 - **Control and authority**
 - **Assigned and attached forces**
- **Strategic forces**
 - **Nuclear**
 - **Global strike**
 - **Information operations**
 - **Missile defense**



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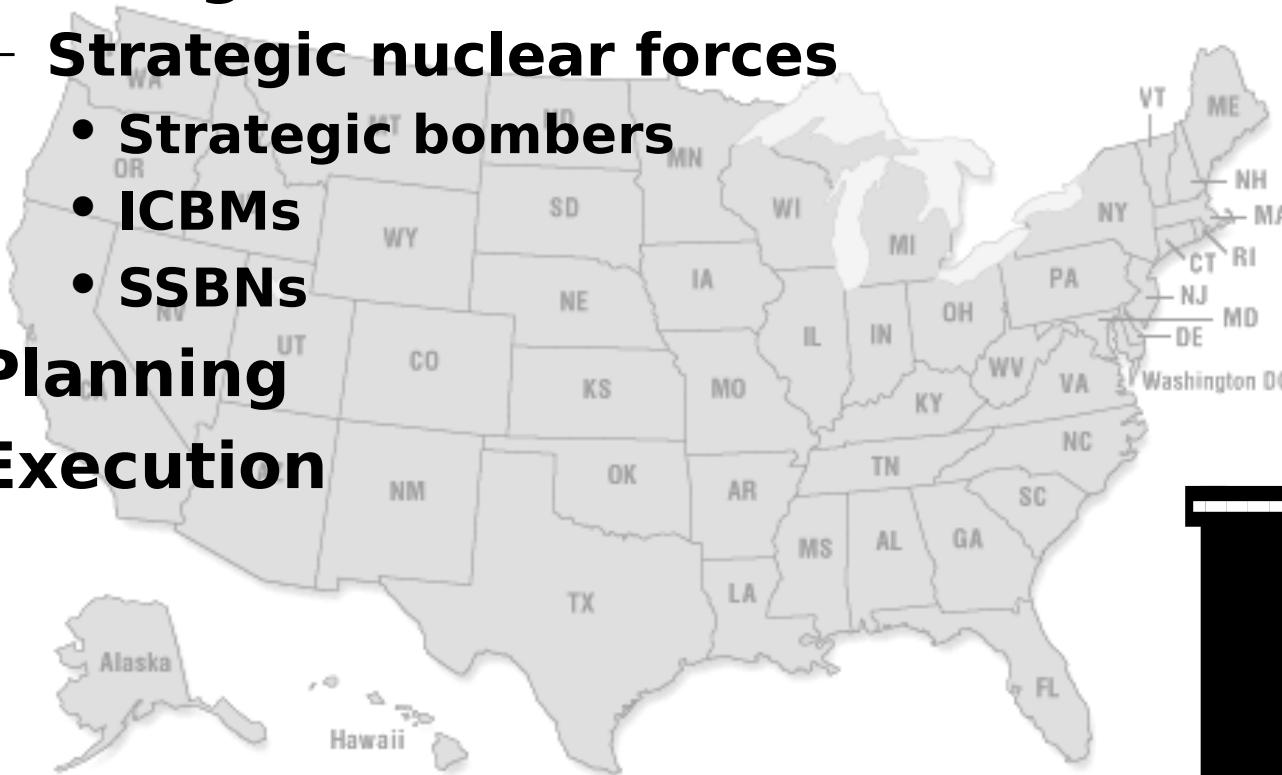




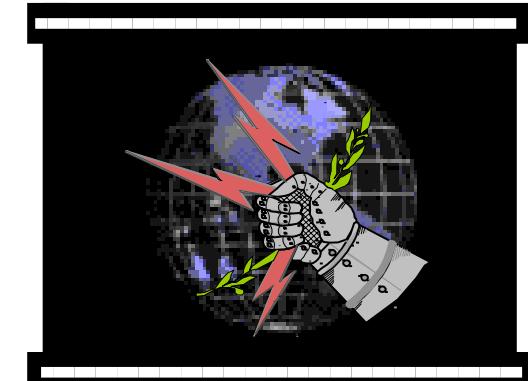
Strategic Deterrence

USSTRATCOM (Offutt AFB)

- Strategic Deterrence
 - Strategic nuclear forces
 - Strategic bombers
 - ICBMs
 - SSBNs
- Planning
- Execution



Gen
Courtwright





J82 Organization Structure

J82

Future Capabilities
Mr. Spencer

J82A
Deputy
Mr. Gelenter

Cradle to grave future capabilities integration Concepts

- Experimentation, Science & Technology Integration (ACTD Oversight)
- Analysis
- Architectures Integration
- CIO Support
- JCIDS / SWARF /FCB Interface

J821 Concepts & Technology Branch
Mr. True / Maj Lindemuth

J822 Analysis Management Branch
Mr. McKenna / Ms. Echternach

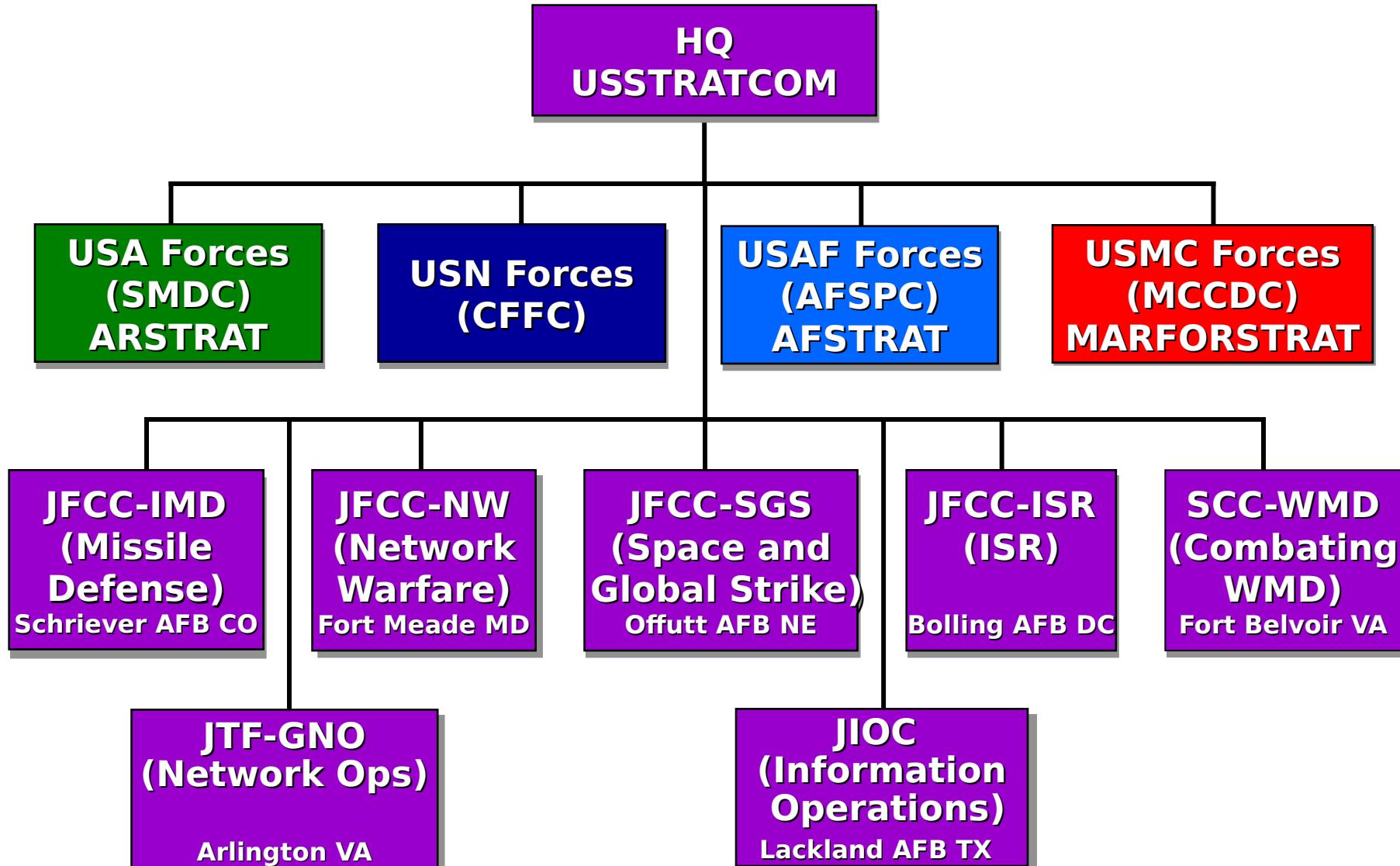
J823 Enterprise Management Branch
Mr. Fisher / Lt Col Withee

J824 JCIDS Management Branch
LCDR White / (Vacant)

J825 Experimentation Branch
CDR Haller / Maj Saunders



Component Structure



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